WHAT IS CLAIMED IS:

1.   A method for automatically imparting a reserve resource to a logical partition in a logical partitioned computer system in which one or more logical partitions are provided in one physical computer, and an operating systems is operated in each of the logical partitions, comprising the steps of:

monitoring an amount of the resource being used in an amount of the resource being assigned to each of the logical partitions, and requesting assignment or collection of the resource to said physical computer on the basis of a result of monitoring; and

causing said physical computer upon receipt of the request to assign the reserve resource to the logical partition in the case of the assignment request, and to set the resource being assigned to the logical partition as the reserve resource in the case of the collection request.

2.   A logical partitioned computer system in which one or more logical partitions are provided in one physical computer, and an operating system is operated in each of the logical partitions, comprising:

a resource managing unit provided in said physical computer for managing the resource being assigned to said physical computer and an assigning/collecting unit provided in said physical computer for effecting the assignment or collection of

the resource with respect to each of the logical partitions;

a monitoring unit provided in each of the logical partitions for monitoring an amount of the resource being used in an amount of the resource being assigned and an adding/separating unit provided in each of the logical partitions for requesting said assigning/collecting unit to add or separate the resource on the basis of a result of monitoring by said monitoring unit,

wherein said assigning/collecting unit inquires said resource managing unit in compliance with a request from said adding/separating unit, and assigns the resource to the logical partition when a reserve resource is present in the case of an assignment request, and collects the resource as the reserve resource in said resource managing unit in the case of a collection request.

3.   The logical partitioned computer system according to claim 2, further comprising:

an external resource adding/separating unit provided in said physical computer,

wherein said external resource adding/separating unit adds or separates the external resource with respect to said resource managing unit in response to an instruction by an operator.

4.   The logical partitioned computer system according to claim 2, further comprising:

a management table provided for each of the
logical partitions in said physical computer,

wherein information on assignability of the
reserve resource is set in said management table, and
when a resource assignment request has been received
from said adding/separating unit of the logical
partition, whether or not assignment of the reserve
resource is to be effected is determined in accordance
with the contents of the information on assignability
of the reserve resource in said logical partition
management table.

5.   The logical partitioned computer system
according to claim 2, wherein said resource managing
unit sets the logical partition to which the reserve
resource is assigned for each reserve resource, and
upon receipt of the assignment request from said
adding/separating unit in the logical partition, said
resource managing unit assigns an assignable reserve
resource to the logical partition.

6.   A method for automatically imparting a
reserve resource to a logical partition in a logical
partitioned computer system in which one or more
logical partitions are provided in one physical
computer, and an operating systems is operated in each
of the logical partitions, comprising the steps of:

managing by a control program of said
physical computer the resource assigned to said
physical computer by the use of a resource management

table, and effecting the assignment or collection of the resource with respect to each of the logical partitions;

causing an operating system of each of the logical partitions to monitor an amount of the resource being used in an amount of the resource being assigned to each of the logical partitions, and requesting assignment or collection of the resource to said control program on the basis of a result of monitoring; and

causing said control program upon receipt of the request to assign the reserve resource in said resource management table in the case of the assignment request, and to change the resource being assigned, for which the request for collection has been made, in said resource management table to the reserve resource in the case of the collection request.